BRUHAT BANGALORE MAHANAGARA PALIKE
EXCECUTIVE ENGINEER DASHARAHALLI DIVISION

NAME OF WORK :- Providing CC Retaining wall at NH Service road SSM Retaining wall at near Metro station in ward No.15

Est Cost:4.90Lakhs

Sl.No	Description of work	Mesurement Nos	L	B	D	Qty	Unit	Rate	Amount
1	KSRRB 300-2 Earthwork excavation by manual means in Ordinary soil involving an average horizontal throw upto 2meters and an average lift upto 1.5m Excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. (Page no-142, Item no-19.2) including disposing of excavated earth at a lead of 9kms								
	Rate=Basic rate + 6% of B.R(area weightage) =[82.00 & {(2.50X1.28X9)+68.00}]=178.80+6% (A.W)=189.53/cum								
		1	30.00	0.90	0.30	8.10			
		1	18.00	0.90	0.30	4.86			
		1	30.00	0.90	0.30	8.10			
		1	18.00	0.90	0.30	4.86			
	Pipe Line	1	70.00	0.90	0.75	47.25			
	Ugd Line	1	40.00	0.90	0.75	27.00			
	Culvert	1	10.00	1.80	0.90	16.20			
						116.37	**Cum**	**189.53**	**22056.00**
2	KSRB 4 -1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs, with 40 mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, including cost of all materials, labour HOM of machinery curing complete as per specifications. Specification No.KBS 4.1, 4.2 (PWD SR 2016-17, Page No.12, Item No. 4.3)								
		1	10.00	1.80	0.15	2.70			
						2.70	**Cum**	**5159.02**	**13929.00**
	Basic Rate	**4867.00**							
	AW 6%	292.02							
	Total	**5159.02**							
3	KSRB 12-1.1 : Providing and laying in position to required level or slope 100mm internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints,including cost of materials, labour charges complete as per specifications. (Page No-70, Item No-11.1)								
		1	70.00			70.00			
						70.00	**Rmt**	**242.74**	**16992.00**
	Basic Rate	**229.00**							
	AW 6%	13.74							
	Total	**242.74**							
4	KSRB 12-5.4 : – Constructing brick masonry circular type manhole 1.22 m internal dia at bottom, 2.29m deep and 0.56m dia at top, with table moulded and non modular bricks of class designation 50 in cement mortar 1:4, inside cement plaster 12mm thick with cement mortar 1:3, finished with a floating coat of neat cement, foundation concrete M 10 using 40mm and down size granite metal and making necessary channel in cement concrete M 15 with 20mm and down size granite metal, finished with a floating coat of neat cement, with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diameter confirming to IS :12592, total weight length of cover and frame to be not less than 182 kg, fixed in cement concrete M 15 20mm and down size broken granite metal, providing and removing centering, shuttering including cost of materials, labour charges, HOM of mechineries complete as per specifications. (Excavation, footrests and 12mm thick cement plaster on the external surface shall be paid seperately) Specification No. KBS 12.4(p.No.72 I.No 11.40)								
		1	1.00			1.00			
						1.00	**Cum**	**33324.28**	**33324.00**
	Basic Rate	**31438.00**							
	AW 6%	1886.28							
	Total	**33324.28**							

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6	KSRB 12.1.1 Providing and laying in position to required level or slope 230mm internal diameter hail glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints including cost of materials, labour charges complete as per specifications. Specification No. (Pg No-70, I No-11.6)								
	Per RMT Lmts	1	40.00			40.00			
	Basic Rate	624.00							
	Add Area Weightage @ 6%	37.44							
	Total	661.44							
						40.00	Mtr	661.44	26458.00
8	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5 m including cost of all labour complete as per specifications. (Page No-6, Item No-2.11)								
	Qty Vide Item No 1								
						74.25			
	Basic Rate	76.00				74.25	Cum	80.56	5982.00
	AW 6%	4.56							
	Total	80.56							
7	100mm S or P Trap								
		1	5.00			5.00	Each	68.90	345.00
	Basic Rate	65.00							
	AW 6%	3.90							
	Total	68.90							
5	Dismantling of existing structures lik culverts, bridges, retaining walls and other structure comprising of masonry, CC, wood work, steel work, uncluding T&P and scaffolding wherever necessary, sorting the dismantled material, disposal and unserviceable material and stacking the serviceable material with all lifts and lead of 1000meters complete as per specifications Dismantling Rubble stone masonry in cement mortar (P-137 & 138,I- 18.27)								
		1	30.00	0.90	0.90	24.30			
		1	20.00	0.90	0.90	16.20			
		1	30.00	0.90	0.90	24.30			
		1	18.00	0.90	0.90	14.58			
	Basic Rate	244.00				79.38	cum	258.64	20531.00
	AW 6%	14.64							
	Total	258.64							
9	KSRRB M290-1 Plain cement concrete M10 with Crushed stone aggregates 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing complete as per specifications. MORTH Specification No. 408 (Page no-253, Item no-34.1)								
	Chain link Fencing	1	30.00	0.90	0.15	4.05			
		1	20.00	0.90	0.15	2.70			
		1	30.00	0.90	0.15	4.05			
		1	18.00	0.90	0.15	2.43			
	Basic Rate	4434.00				13.23	Cum	4700.04	62182.00
	AW 6%	266.04							
	Total	4700.04							
10	KSRRB : Providing and constructing granite / trap / basalt size stone masonry in Foundation with cement mortar 1 :6, and hammered dressed in courses not less than 20cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (Page No-254, Item No-34.8.2) With Available stones								
	40% of qty vide item no. 1					31.75			
	Basic-	4187.00							
	Less size stone recurred(105 nos/cum) 105x13/- (P.No. III, Sl No. 70)	1365.00							
	Deduct 10% over head chargers	136.50							
	Deduct 10% contractor profit	136.50							
		1638.00							
	(4187-1638)	2549.00							
	Area weightage @ 6%	152.94							
	Total	2701.94				31.75	Cum	2701.94	85792.00

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11	KSRRB : Providing and constructing granite / trap / basalt size stone masonry in Foundation with cement mortar 1 :6, and hammered dressed in courses not less than 20cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications KBS 5.1.13 (Page No-254, Item No-34.8.2)								
	1st Step	1	30.00	0.80	0.45	10.80			
		1	20.00	0.80	0.45	7.20			
		1	30.00	0.80	0.45	10.80			
		1	18.00	0.80	0.45	6.48			
	2nd Step	1	30.00	0.60	0.45	8.10			
		1	20.00	0.60	0.45	5.40			
		1	30.00	0.60	0.45	8.10			
		1	18.00	0.60	0.45	4.86			
	Culvert	2	10.00	0.45	0.80	7.20			
					Net Qty	68.94			
	Deduct Qty Item No.4					-31.75			
						37.19	**Cum**	**4438.22**	**165049.00**
	Basic Rate	**4187.00**							
	AW 6%	251.22							
	Total	**4438.22**							
12	KSRRB : Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (Page no-254, Item no-34.13.2)								
	2nd Step	1	30.00		0.45	13.50			
		1	20.00		0.45	9.00			
		1	30.00		0.45	13.50			
		1	18.00		0.45	8.10			
	Culvert	2	10.00		0.80	16.00			
						60.10	**Sqm**	**103.88**	**6243.00**
	Basic Rate	**98.00**							
	AW 6%	5.88							
	Total	**103.88**							
13	KSRRB : Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size gaded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459 Cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted for coping, including cost of all materials, Jabour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (Page no-254, Item no-34.11)								
	Coping	1	30.00	0.60	0.08	1.35			
		1	20.00	0.60	0.08	0.90			
		1	30.00	0.60	0.08	1.35			
		1	18.00	0.60	0.08	0.81			
	Culvert	2	10.00	0.45	0.10	0.90			
						5.31	**Cum**	**5610.58**	**29792.00**
	Basic Rate	**5293.00**							
	AW 6%	317.58							
	Total	**5610.58**							
								Sub Total	**488675.00**
	Miscelleneous charges								**1325.00**
								Grand Total Rs.	**490000.00**

CERTIFICATE

1 *Certified that The work spot has been inspected by me and the work is necessary & site condition*
2 *Certified that the work is not split*
3 *Certified that the estimate is based on PW,P&IWTD Bangalore Circle SR of 2016-17*
4 *Certified that Adeqate & necessary provisions have made in the estimate.*
5 *Certified that the above area comes under BBMP limit*

Asst Engineer
Ward-~~28~~ 15

Asst.Executive Engineer
Hegganahalli Sub Division

Executive Engineer
Dasharahalli Division

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